dlc 96000439
(cont.)

X Collection

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Barcode Number	Box Number	Total of Volumes	Call Number
LIBRARY OF CONGRESS 0 029 767 400 6	1938 1 BOX	3	TH443– TH900
	1939	9	TH1065– TH5501
LIBRARY OF CONGRESS 0 029 767 401 8	1940	5	TH5606 no.1-5 (1950)
LIBRARY OF CONGRESS 0 029 767 402 A	1941 1 BOX	3	TH5606.Z9 no.1-3 (1948-52)
	1942	8	TH7201.A5– TH9148
LIBRARY OF CONGRESS 0 029 767 406 7	1945	7	TH9151 no.1-7 * (1950-52)
LIBRARY OF CONGRESS 0 029 767 403 1	1943	100	TH9237.U5 no.1-100 (1920-66)
LIBRARY OF CONGRESS 0 029 767 404 3	1944A	51	TH9237.U5 no.1-51 (1921-60)

* Follows Call # Sequence

X Collection

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Barcode Number	Box Number	Total of Volumes	Call Number
LIBRARY OF CONGRESS 0 029 767 405 5	1944B	12	TH9237.U5 no. 52-63 (1953-60)
LIBRARY OF CONGRESS 0 029 767 407 9	1946A	54	TH9237.U5 no. 1-54 (1921-57)
LIBRARY OF CONGRESS 0 029 767 408 0	1946B	24	TH9237.U5 no. 55-78 (1958-Undated)
LIBRARY OF CONGRESS 0 029 767 413 4	1947A	90	TH9237.U5 no. 1-90 (1919-53)
LIBRARY OF CONGRESS 0 029 767 414 6	1947B	16	TH9237.U5 no. 91-106 (1953-55)
LIBRARY OF CONGRESS 0 029 767 415 8	1948A	100	TH9237.U5 no. 1-100 (1947-53)
LIBRARY OF CONGRESS 0 029 767 416 A	1948B	28	TH9237.U5 no. 101-128 (1954-Undated)

X-TH 9237 .U5

202 The thickness of impregnated asbestos (Types AF, AFC, AFPO, AFPD, AFSJ, and AFS) and the thickness of impregnated cotton (Types CF, CFC, CFPO, and CFPD) on an individual stranded conductor shall be such that the overall diameter of the insulated conductor will be in accordance with the following table. The thickness of insulation on Type AF or CF fixture wire employing a solid conductor shall be as indicated in the following table.

203 **IMPREGNATED COTTON AND ASBESTOS**

Awg Size of Conductor	Stranded Conductors Overall Diameter in Mils		Solid Conductors Thickness of Insulation in Mils	
	Average — Minimum	Minimum at any Point	Average — Minimum	Minimum at any Point
18	107	103	31	28
16	121	116	31	28
14	137	132	31	28
12	187	181	47	43
10	209	203	47	43

204 Measurements are to be made on a representative sample of the insulated conductor after the removal of any braid used for the sake of appearance and any exterior material (including any lacquered braid) other than the impregnated base material (impregnated asbestos or impregnated cotton). Both average and minimum diameters are to be determined by means of the micrometer caliper or dial micrometer described in paragraph 189. The average diameter is the average of not less than five sets of measurements — no two sets of measurements being made less than one foot apart. Each set of measurements is to consist of the values of the maximum and minimum diameters at the place measured; and no individual measurement is to be less than the minimum value given in the table. Both average and minimum values of insulation thickness are to be determined by the difference method as described in paragraph 189, except as provided for separators in the following paragraph; and the thickness of insulation at no point is to be less than the minimum value given in the table.

205 The values of diameters in the table are based on the required thickness of insulation without the use of a separator. However, a separator of cellulose acetate, cellulose acetate butyrate, or other material which is recognized as suitable for the particular application may be considered to be a part of impregnated asbestos insulation; and a separator of impregnated cotton, treated paper, cellophane, cellulose acetate, or cellulose acetate butyrate may be considered to be a part of impregnated cotton insulation; and in either case the measured value of overall diameter is to be decreased by twice the amount by which the thickness of the separator exceeds three mils. If an unrecognized separator is used with either impregnated cotton or impregnated asbestos insulation, the measured value of overall diameter is to be decreased by twice the thickness of the separator. If impregnated cotton insulation is used, an individual cotton braid which has the same impregnation may be considered to be a part of the conductor insulation.

Paragraphs 202 – 205 revised May, 1953 — Standard for Flexible Cord and Fixture Wire, Fourth Edition

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382 **Type HPN cord shall have a distinctive marking throughout its entire length by which it may be identified readily as heater cord. The marking shall consist of a red thread (which indicates a temperature limit of 90 C) under the separator of at least one conductor, or some other marking which, as the result of special investigation, is judged to be suitable for the purpose.**

Paragraph 382 revised May, 1953 — Standard for Flexible Cord and Fixture Wire, Fourth Edition

X-TH 9237.U5 #91

231

X-TH9237
.U5

	Characteristics of Supply Circuit		Voltage Rating	
	Number of Wires	Neutral	Direct Current	Alternating Current
A	2	Switched, solid, or none	125 250*	120 240*
B	2	None	125 125–250 250* 600*	120 120–240 240* 480* 600*
C	3	Switched or solid	125–250	120 120–240 240*
D	3	None		120 240* 480* 600*
E	4	Switched or solid		240*† 480* 600*
F	4	None		120* 240* 480* 600*
G	5	Solid		120–240

* These ratings are not applicable to service equipment having plug fuses.

† See paragraph 158.

Paragraph 231 revised September, 1953 — Standard for Service Equipment, Second Edition

X-TH 9237
.U5 #93

199

	Characteristics of Switch			Voltage Ratings	
	Number of Wires	Number of Blades	Number of Fuses	Direct Current**	Alternating Current
A	1	1	1 or none	125	120
B	2	1 with solid neutral	1 or none	125 250*	120 240*
C	2	2	1	125 250*	120 240*
D	2	2	2 or none	125 125–250 250* 600*	120 120–240 240* 480* 600*
E	3	2 with solid neutral	2 or none	125–250	120 120–240 240*
F	3	3	2	125–250	120 120–240 240*
G	3	3	None	125–250	120 120–240 240* 480* 600*
H	3	3	3		120 240* 480* 600*
I	4	3 with solid neutral	3 or none		240* † 480* 600*
J	4	4	3		240* 480* 600*
K	4	4	4 or none		120 240* 480* 600*
L	5	4 with solid neutral	4 or none		120–240

* These ratings are not applicable to switches having plug fuses.

** A switch having one of the direct-current ratings is also considered to be suitable for use on alternating current.

† See paragraph 125.

Paragraph 199 revised September, 1953 — Standard for Enclosed Switches, Sixth Edition.

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X-TH9237.US #105

Subject 73

Chicago 11, Illinois
January 20, 1961

5 -FEB-3
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To: Holders of the Standard for Motor-Operated Appliances

Subject: Revised Edition of the Standard for Motor-Operated Appliances

Accompanying this letter is a copy of the third (December, 1960) edition of the above-named standard. It supersedes the second edition, which was dated April, 1958.

The revised edition of the Standard has been prepared as a result of careful study of the subject by the Laboratories' staff; it has been reviewed by and discussed with the manufacturers of listed motor-operated appliances and with others known to have an interest in the requirements which the Standard contains; and it has been approved by the Laboratories' Electrical Council, which is comprised largely of inspection authorities throughout the United States.

The contents of the third edition are in accordance with the Laboratories' bulletins of February 29 and December 6, 1960; and there have been a few further modifications of a purely editorial nature.

The requirements in the third edition of the Standard are effective forthwith, except that the requirement in paragraph 131 does not become effective until July 1, 1961 for gardening appliances, and it does not become effective until January 1, 1962 for household-type wet scrubbers. It is expected that each manufacturer will review each item of his product which is now listed to determine whether or not it complies in all respects with the requirements in the third edition of the Standard, and that he will make all changes necessary for such compliance, keeping the Laboratories informed of his activities in this respect.

UNDERWRITERS' LABORATORIES, INC.

N. M. McCorkle WHH

N. M. McCORKIE
Standards Engineer

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